H·L Data Storage

ENGLISH

OWNER'S MANUAL

Blu-ray/DVD Writer
BD-ROM/DVD Writer

To enjoy fully all the features and functions of your product, please read this owner's manual carefully and completely.

Blu-ray Disc™

Cautions

CAUTION : The laser used in the Writer can damage your eyes.
Do not attempt to open the cover.
To reduce the risk of electric shock, do not remove the cover (or back).
There are no user-serviceable parts inside.
Refer servicing to qualified service personnel.

Use of controls or performance of procedures other than those specified herein may result in hazardous radiation exposure.

WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture

Caution!

The disc rotates at high speed in the drive unit.
Use of worn, damaged, or non-standard discs can adversely affect the drive and cause the disc to shatter or crush while in use.
Disc crush can only occur when you use a damaged disc in the drive. It is an extremely rare occurrence, but there are steps which can be taken to prevent it.

Always check your discs before inserting them into the drive.

1. **Take care not to use worn, cracked, damaged, warped or poor quality discs, as this may cause damage to your drive.**
2. **Check the clear plastic on the center of the disc, cracks here are the main cause of disc crush.**
3. **Do not play discs which are a non-standard (I.e. non-circular) shape, such as heart shaped discs, or discs in the shape of a business card.**

How can you keep your discs from becoming damaged?

1. **When not in use, remove discs from the drive.**
2. **Keep discs in the packaging supplied with them and out of direct sunlight and away from heat sources.**

Excessive vibration or a sudden jolt to the drive during operation may cause a malfunction.
Avoid exposing the drive to sudden changes in temperature as it may cause condensation to collect inside the drive.

Important Precautions

Follow these precautions when handling the drive or discs.

- Please take notice that the manufacturer of this equipment does not offer any warranty against data loss due to inappropriate installation or handling, or direct or indirect damages.
- Please take notice that the manufacturer will bear no responsibility for direct or indirect damages caused by the use of this product or its malfunction.
- Please take notice that the manufacturer will bear no responsibility for damage to data caused by this product.
- Please backup (copy) all important data as a protection against data loss.
- Avoid placing the drive in a location subject to:
  - high humidity, high temperature, excessive dust, mechanical vibration, direct sunlight

We recommend using the drive in a horizontal or vertical position.
Do not use it in tilted position.

- Don't move the drive suddenly from a cold place to a warm one or raise the room temperature suddenly. Condensation may occur, causing abnormal operation.
- Make sure to remove the disc before moving the drive. The disc may become damaged, causing data loss.
- Be careful to prevent foreign objects, such as liquids or metal, from entering the drive.
- Don't interrupt the electric power while the drive is operating.
- Please pay attention to handling Electrostatic Sensitive Devices, you may use anti-static products such as wrist straps, heel straps, mats to protect your body from electrostatic.

The appliance is not intended for use by young children or infirm persons without supervision.

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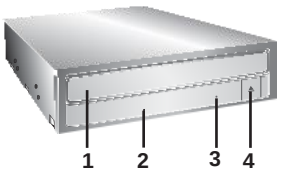
- Microsoft® and Windows® are trademarks registered in the United States and other countries by the Microsoft Corporation.
- DVD Logo is a trademark of DVD Format/Logo Licensing Corp., registered in U.S., Japan and other countries.
- BD Logo is a trademark registered in U.S., Japan and other countries.
- The company names and product names written in this manual are trademarks or registered trademarks of the respective companies.

Location and Function of Controls

This following is the general figure of the design of the drive. The drive's appearance and specifications may change without prior notice.

Front Panel



1. Disc Tray

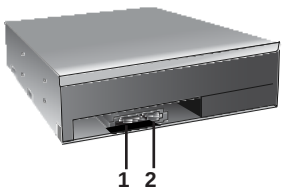
2. Emergency Eject Hole

3. Drive activity indicator

The LED is used to indicate the operation of Writer.

4. Eject Button

Rear Panel



1. SATA Power Connector (15 pin)

2. SATA Data Connector (7 pin)

Installing the Drive

Before installing the drive, please note the following points.

- You will need the following:
  - A screw driver of a suitable size to fit the securing screws for the drive unit.
  - The manual for the computer, so you can find the mounting positions for the SATA cable.
- Turn off all peripheral appliances of the computer and the computer itself, and disconnect their power cords from the wall sockets.
- Discharge any static electricity on your person by touching the computer covers, etc.

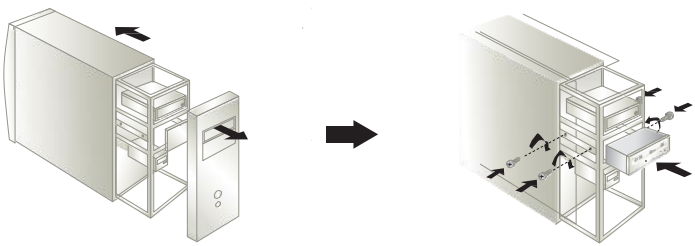
Removing the Computer Cover

Make sure all peripheral devices of the computer and the computer itself are turned off, and then remove the cover. Refer to the manual for the computer for details about removing the cover.

NOTE : There may be sharp edges inside the computer so take care to avoid injury.

Mounting the Drive

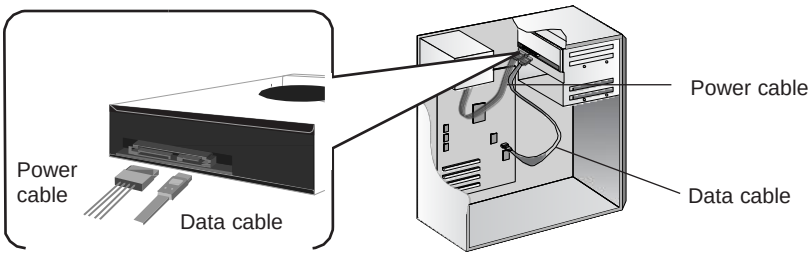
1. Remove the a $5^1/4''$ drive bay panel from the computer. Refer to the manual for the computer for details.
2. Insert the drive unit into the bay. Do not apply excessive pressure to the cables inside the computer.
3. Secure the drive with the screws. If there is not much space behind the drive, connect the SATA and other cables before securing the drive.



NOTE : This is a general installation guide. If your PC hardware appears different, please consult your hardware manual for installing peripheral devices.

PC Connection

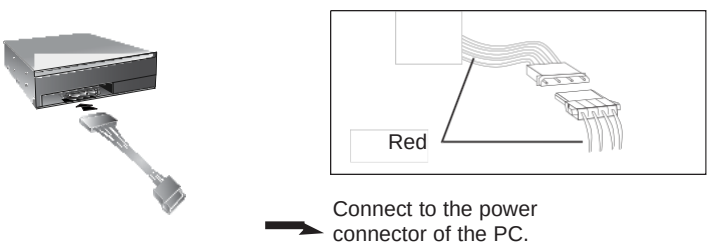
The Writer connects to the motherboard of the host computer using a SATA interface cable.



Connecting the SATA Power Cable

Connect the power cable so the projection of the cable connector side to come to the left side. Be careful not to connect upside down.

NOTE : Improper connection may damage the drive and void the warranty. Generally, the power connector can only fit one way.



Connect to the power connector of the PC.

Connecting the SATA Data Cable

Connect the data cable. Be careful not to connect upside down.

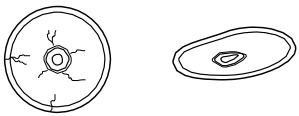
Connect to the SATA connector on the PC's Motherboard.

Device Drivers

When using Windows Operating System, no special device driver is required. Your system, upon Power On and bootup after installing and connecting the new Writer will recognize and load native software drivers automatically.

How to Use the Discs

Don't attach any stickers or labels to discs, It could cause read/write errors and data loss.



The Discs in this unit operate at a very high speed! DO NOT use damaged, cracked or warped discs. The drive's optical unit may be damaged if they break.

DO NOT use non-standard discs. NON-standard discs may not play or store data properly.

Emergency Eject

This drive has a feature that allows the disc to be ejected manually if this becomes necessary such as failure of the drive or a power outage.

NOTE: Don't use this feature **except** in an emergency.

1) Turn the power to OFF.
2) Poke a fine-tipped object (such as a straightened heavy duty paper clip) into the small hole above the eject button. The front door will pop open and the disk tray will come partway out.
3) Pull the front door to open it all the way, then grip the disc tray between thumb and forefinger and gently pull it straight out.

NOTE: This feature is a last measure to be used only in an emergency.
Using it excessively will cause malfunction.

* If you cannot get a good grip on the disc tray with your fingers, use a steel binder clip or spring clamp to pull it out.

Troubleshooting

Before Requesting Service

Before calling for service, check this list.

- The drive doesn't have power.
  - Is the power supply cable from the host computer plugged in?
  - Is the Power Connector to the drive securely attached?
- The system doesn't start.
  - Are the power and SATA cables to the PC correctly connected?
  - Is the total length of the SATA cable 20 inches or less?
  - Is each connector completely attached?

  Other connections may have been knocked lose while installing the drive.
- Cannot Read or Write Discs.
  - Is the condition of everything else in the system (CPU, hard disc, and others) as it should be? (See system environment.)
  - Does the CD, DVD or BD disc have dirt or scratches?
  - Did a screen saver or other application operate while writing to the disc?
  - Is there enough free space on the CD, DVD and BD disc?
  - Does writing fail even using the simulation test for CD or DVD disc?
  - Is the disc loaded in the drive with the read/write surface facing the right direction? (label up)
  - Is the drive installed in the correct orientation?
  - Was the drive or disc moved from a low temperature environment to a high temperature environment? (There is a possibility of condensation on the lens in the drive or on the surface of the disc.)

When you call for service, be prepared to give as much information as possible of your system, environment, and the specific problem. (What happened? When? How long? What was going on? Were there any error messages displayed? etc.)

Please Note: Since this product supports Regional Playback Control Phase II for DVD-Video with CSS, a certain MPEG decoder card or Software without regional code setting may cause this drive not to read DVD-Video with CSS discs. This Drive enables you to change the regional code up to 5 times.

FCC COMPLIANCE STATEMENT (U.S. only)

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an Authorized Service Center for help.

• FCC WARNING
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

• This Product is for use only with UL listed personal computers that have installation instructions detailing user-installation of card cage accessory.

Laser Safety Statement

CAUTION : CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.

CLASS 1 LASER PRODUCT

BD FAQ

BD

Sound is outputted to 2 channels from Power DVD	- In order to output the sound over 5.1 channel from DVD, please select Configuration Icon Click >Audio > Speaker Environment > 6 Speaker. Bundle Power DVD provided when you purchase the product supports up-to 6 channels.
BD Title is not played in Widows Media Center	- BD title is not played in Widows Media Center because Widows Media Center does not have BD Play Engine. Currently, only CD/DVD/Audio can be played. In order to play BD title, please use Power DVD provided when you purchase the product.
It takes long to record in BD Media	- It takes about two times longer because BD Media has defect management function to verify media when recording. It is recommended to use verification process when recording to secure recording quality. If you do not want to use verification function, you can choose applicable option in Tool Menu as follows. You can record after clearing check box in “Defect Management Activation” in Power 2GO.
Recording process stops with the message “Over file system size limit” while recording BD/DVD media in Power 2GO.	- ISO 9660 file system does not support a single file with the size of over 2GB. If the size of a single file is over 2GB, you can select UDF in Recording Icon click > Data > File system size menu in Power 2GO to continue recording.

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